

Architecting Intelligent Security:

VMS & Edge AI Appliances in Action

Please turn off your video, open your chat, and ask any questions in the chat. Thank you!

ABOUT THE SPEAKER



WILLIAM GODOY,
Field Applications Engineer

William is a field applications engineer at CBC America and has spent nearly 11 years in the role.

He specializes in designing and implementing security systems for various enterprises, drawing on his IT management background.

William holds a Master's in Project Management and a Bachelor's in Networking and Communication Management, along with aviation certifications.

Technology: Fundamentally Smarter Edge Processing

The Ganz AI Box serves as an intelligent extension for any existing camera system. It uses high-performance pose estimation and intelligent scene detection to instantly classify detected objects with high accuracy.





Capable of running Multi-AI Algorithms simultaneously on a single channel.

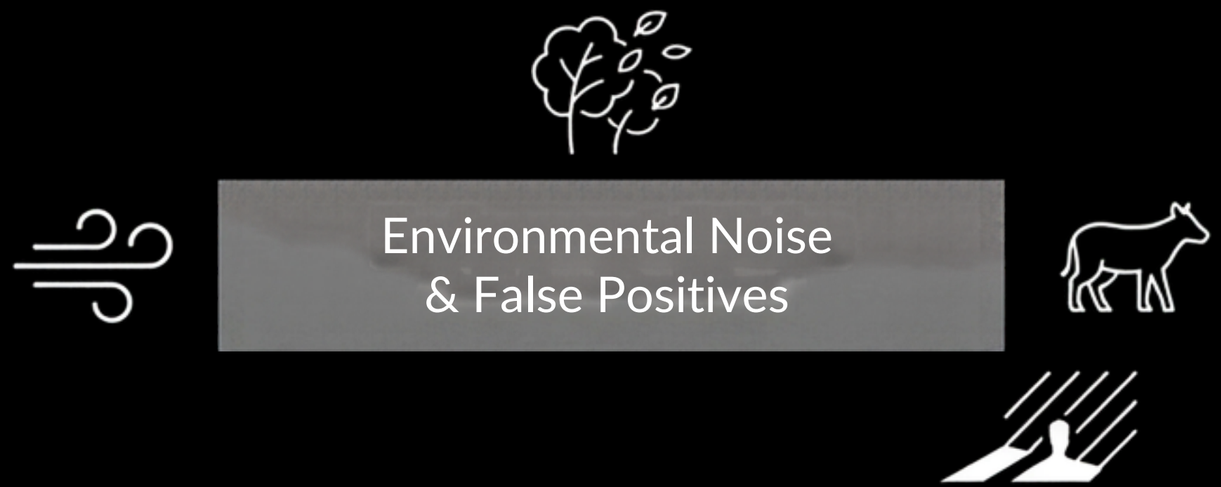
Human Detection
Pose estimation, skeletal tracking

Vehicle Classification
Cars, motorcycles, bicycles

Object Recognition
Helmets, clothing, PPE

AI BOX

Technology: Filtering Chaos into Clarity

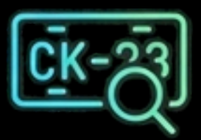


AI BOX

Features: An Ecosystem of 50+ Edge AI Applications



Fire & Smoke Detection
(per channel)



License Plate Recognition
(LPR via OCR engine)



Object Counting
(Lines, zones, queue presence)



Loitering & Intrusion
(Virtual fences)



Aggression Detection
(Fighting or harassment)



Wrong-way Driving
(Vehicle tracking)



PPE Compliance
(Helmet and clothing recognition)



Fallen People
(Public spaces or boats)



Illegal Dumping
(Asset protection)

Rules can be combined dynamically to create highly specific alert parameters.

AI BOX

Integration: Without the “Rip-and-Replace”

Existing Infrastructure



Integration



AI BOX

Connected via
RTSP/ONVIF

Centralized Platforms

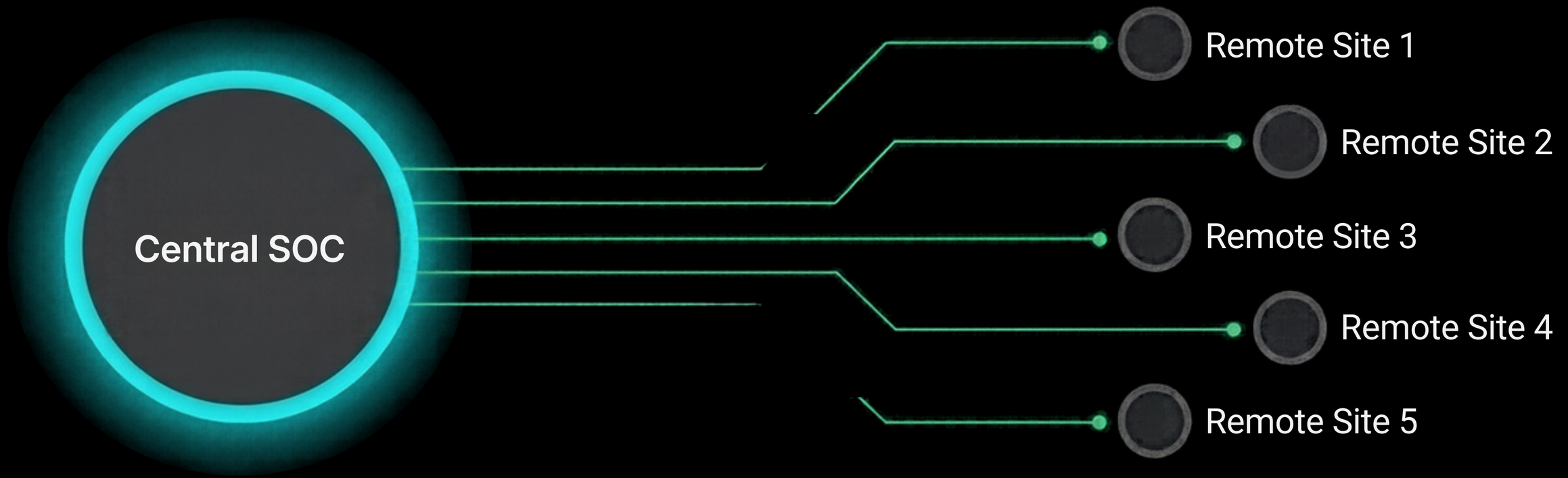
GANZ CORTROL
VIDEO MANAGEMENT SYSTEM

- Immix
- Sentinel
- Safestar
- Kronos

AI BOX deploys seamlessly on existing infrastructure. Connects via standard ONVIF and REST API for intuitive system design and zero friction.

AI BOX

Integration: Centralized Verification for Remote Video Monitoring



Cost-Effective

Eliminates the need for expensive, per-camera cloud subscription models.

Margin Protection

Provides a highly affordable analytics solution for commercial establishments and high-net-worth private residences.

Mobile Surveillance: Intelligence Anywhere

Mobile & Off-Grid Deployments



LTE & GPS Integration

Native support via the ZN-AIBOX-PRO-LTE model for true standalone operation.

Extreme Durability

Fanless chassis operates flawlessly in temperatures ranging from -22°F to 158°F.

Zero Cloud Reliance

Full algorithmic processing lives locally on the edge, requiring no constant internet connection to trigger complex events.

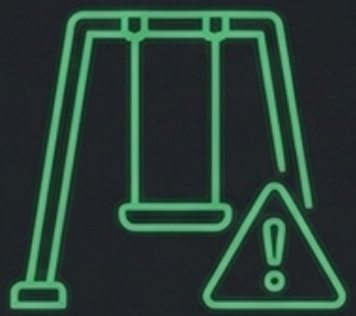
AI BOX

Proactive Behavioral Analytics for Campuses



Aggression & Bullying

Advanced pose estimation analyzes human interactions to detect aggressive posturing, fighting, or bullying, triggering silent alarms before situations escalate.



Playground & Perimeter Safety

Customized notifications for prohibited objects in playgrounds or loitering near critical campus boundaries.



Occupancy & Retail Management

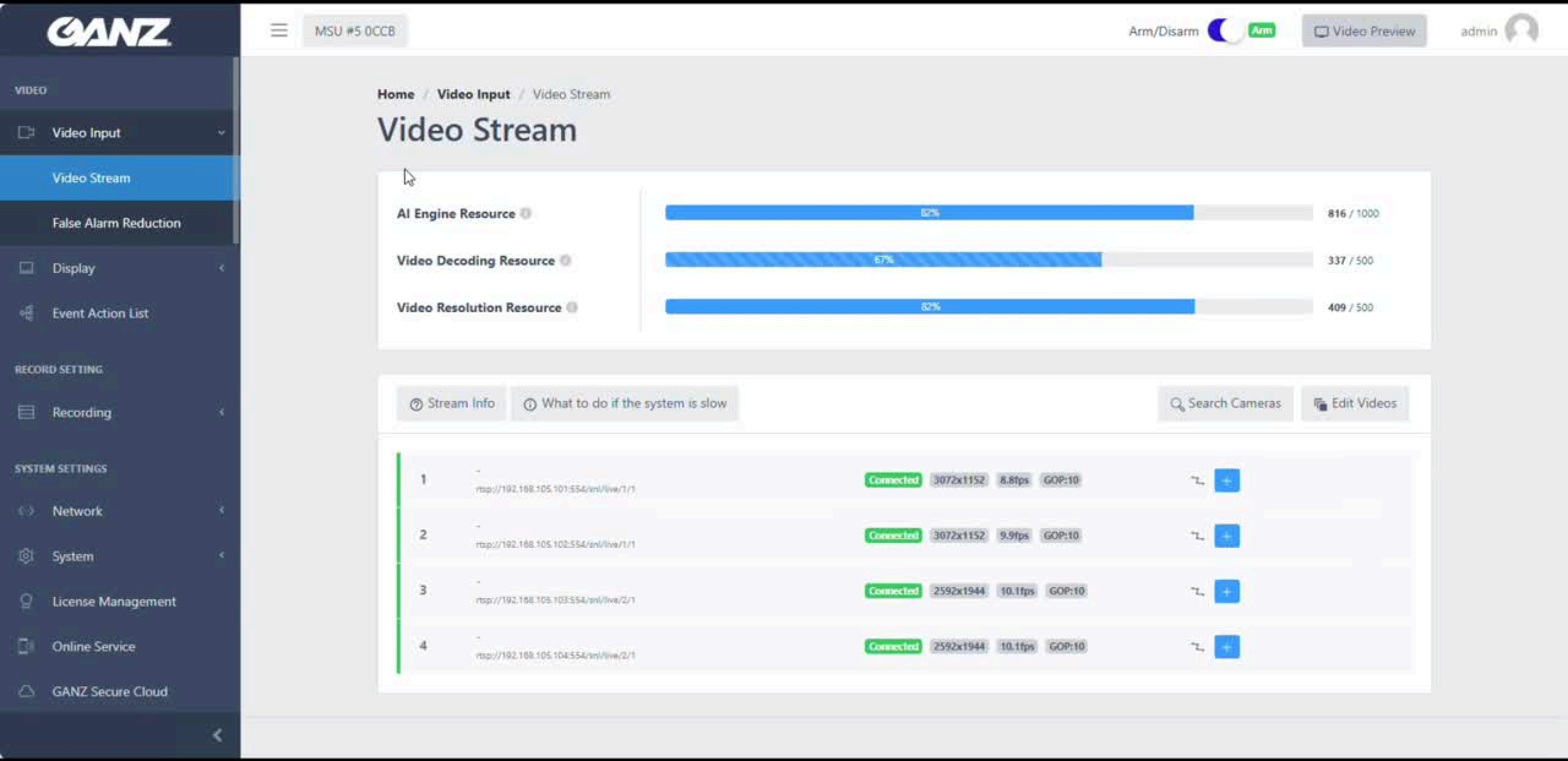
Tracks specific room occupancy limits and monitors unmanned shops for specific behaviors (e.g., eating/drinking detection) without requiring human supervision.

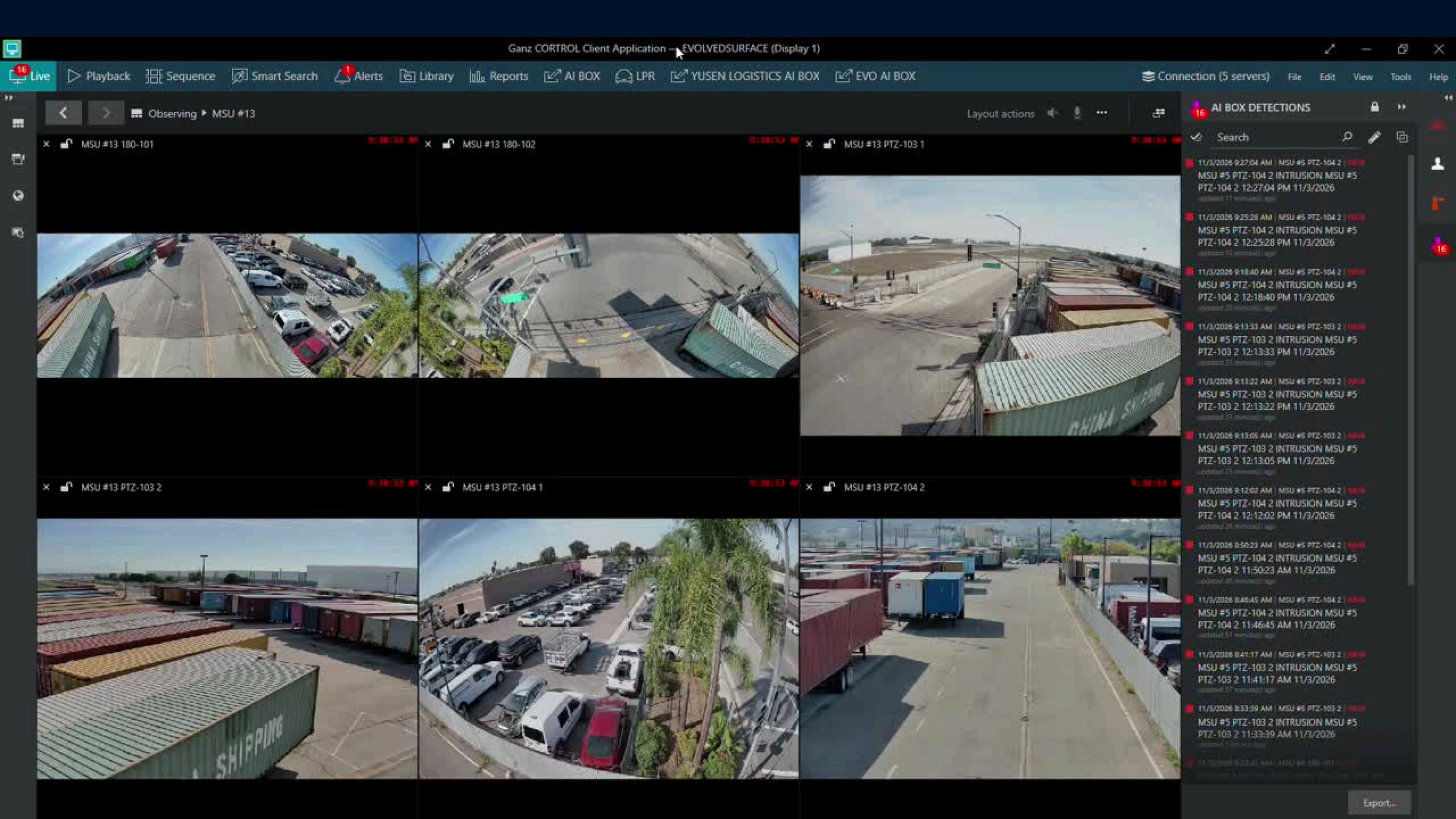
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Intelligence Leading Us Into The Future

1. **Fundamentally Smarter:** 50+ deep learning edge apps eliminating 90% of false alarms.
2. **Fully Agnostic:** Seamless integration with legacy cameras and existing VMS platforms.
3. **Infinitely Scalable:** Unlocking new ROI for SOCs, mobile rigs, and privacy-first campuses.

AI BOX


GANZ
MSU #5 0CCB
Arm/Disarm
Arm
Video Preview
admin
VIDEO
Video Input
Video Stream
False Alarm Reduction
Display
Event Action List
RECORD SETTING
Recording
SYSTEM SETTINGS
Network
System
License Management
Online Service
GANZ Secure Cloud
Home / Video Input / Video Stream
Video Stream
AI Engine Resource
82%
816 / 1000
Video Decoding Resource
67%
337 / 500
Video Resolution Resource
82%
409 / 500
Stream Info
What to do if the system is slow
Search Cameras
Edit Videos
1
rtsp://192.168.105.101:554/snl/live/1/1
Connected
3072x1152
8.8fps
GOP:10
2
rtsp://192.168.105.102:554/snl/live/1/1
Connected
3072x1152
9.9fps
GOP:10
3
rtsp://192.168.105.103:554/snl/live/2/1
Connected
2592x1944
10.1fps
GOP:10
4
rtsp://192.168.105.104:554/snl/live/2/1
Connected
2592x1944
10.1fps
GOP:10


Ganz CORTROL Client Application – EVOLVEDSURFACE (Display 1)
Live
Playback
Sequence
Smart Search
Alerts
Library
Reports
AI BOX
LPR
YUSEN LOGISTICS AI BOX
EVO AI BOX
Connection (5 servers)
File
Edit
View
Tools
Help
Observing ▸ MSU #13
Layout actions
MSU #13 180-101
MSU #13 180-102
MSU #13 PTZ-103 1
MSU #13 PTZ-103 2
MSU #13 PTZ-104 1
MSU #13 PTZ-104 2
AI BOX DETECTIONS
Search
11/3/2026 9:27:04 AM | MSU #5 PTZ-104 2
MSU #5 PTZ-104 2 INTRUSION MSU #5 PTZ-104 2 12:27:04 PM 11/3/2026
11/3/2026 9:25:28 AM | MSU #5 PTZ-104 2
MSU #5 PTZ-104 2 INTRUSION MSU #5 PTZ-104 2 12:25:28 PM 11/3/2026
11/3/2026 9:18:40 AM | MSU #5 PTZ-104 2
MSU #5 PTZ-104 2 INTRUSION MSU #5 PTZ-104 2 12:18:40 PM 11/3/2026
11/3/2026 9:13:33 AM | MSU #5 PTZ-103 2
MSU #5 PTZ-103 2 INTRUSION MSU #5 PTZ-103 2 12:13:33 PM 11/3/2026
11/3/2026 9:13:22 AM | MSU #5 PTZ-103 2
MSU #5 PTZ-103 2 INTRUSION MSU #5 PTZ-103 2 12:13:22 PM 11/3/2026
11/3/2026 9:13:05 AM | MSU #5 PTZ-103 2
MSU #5 PTZ-103 2 INTRUSION MSU #5 PTZ-103 2 12:13:05 PM 11/3/2026
11/3/2026 9:12:02 AM | MSU #5 PTZ-104 2
MSU #5 PTZ-104 2 INTRUSION MSU #5 PTZ-104 2 12:12:02 PM 11/3/2026
11/3/2026 8:50:23 AM | MSU #5 PTZ-104 2
MSU #5 PTZ-104 2 INTRUSION MSU #5 PTZ-104 2 11:50:23 AM 11/3/2026
11/3/2026 8:46:45 AM | MSU #5 PTZ-104 2
MSU #5 PTZ-104 2 INTRUSION MSU #5 PTZ-104 2 11:46:45 AM 11/3/2026
11/3/2026 8:41:17 AM | MSU #5 PTZ-103 2
MSU #5 PTZ-103 2 INTRUSION MSU #5 PTZ-103 2 11:41:17 AM 11/3/2026
11/3/2026 8:33:39 AM | MSU #5 PTZ-103 2
MSU #5 PTZ-103 2 INTRUSION MSU #5 PTZ-103 2 11:33:39 AM 11/3/2026
Export...



Q&A

THANK YOU!

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Schedule a Demo or **Access the AI Box Technical Resource Page** at **ganzsecurity.com/aibox**